

Directions:

Evaluate the student by checking the appropriate number or letter to indicate the degree of competency. The rating for each task should reflect **employability readiness** rather than the grades given in class.

Rating Scale:

- 3 Mastered** – can work independently with no supervision
2 Requires Supervision – can perform job completely with limited supervision
1 Not Mastered – requires instruction and close supervision
N No Exposure – no experience or knowledge in this area

NOTE: The code in parentheses is the competency identification number used in computerized management systems.

3	2	1	N	
				The student has mastered the related competencies of Agricultural Science I and II.

3	2	1	N	A. Nutrition	Notes:
				1. Identify the importance of nutrition to agriculture (A001)	
				2. Compare and contrast the digestive systems of livestock (A002)	
				3. Describe energy's role in nutrition (A003)	
				4. Describe protein's role in nutrition (A004)	
				5. Describe minerals' role in nutrition (A005)	
				6. Describe vitamins' role in nutrition (A006)	
				7. Describe the role of water in nutrition (A007)	
				8. Describe environmental effects on nutrition (A008)	
				9. Formulate a ration for different classes of livestock (A009)	
				Other:	

3	2	1	N	B. Genetics	Notes:
				1. Describe the importance of genetics on agriculture (B001)	
				2. Describe the basic building blocks of genetics (B002)	
				3. Describe animal cell division (B003)	
				4. Describe basic principles of genetics (B004)	
				5. Describe selection tools for genetic improvement of beef (B005)	
				6. Describe selection tools for genetic improvement of dairy herds (B006)	
				7. Describe selection tools for genetic improvement of sheep (B007)	
				8. Describe selection tools for genetic improvement of swine (B008)	
				Other:	

3	2	1	N	C. Reproduction	Notes:
				1. Identify the importance of reproduction in livestock production (C001)	
				2. Describe the hormonal system in livestock reproduction (C002)	
				3. Describe the reproductive cycle of common production livestock (C003)	
				4. Sequence the fetal developmental stages of livestock (C004)	
				5. Describe the effects of the environment on the reproductive cycle (C005)	
				6. Describe how management and technology are utilized to affect the reproductive cycle (C006)	
				Other:	

3	2	1	N	D. Animal Health	Notes:
				1. Identify the importance of animal health in livestock (D001)	
				2. Describe aspects of the immune system of domestic livestock (D002)	
				3. Describe the diseases of the respiratory system affecting livestock (D003)	
				4. Describe the diseases of the gastro-intestinal tract in livestock (D004)	
				5. Describe the diseases of the reproductive system in livestock (D005)	
				6. Describe the major external and internal parasites of livestock (D006)	
				7. Describe animal health quality assurance programs (D007)	
				Other:	

3	2	1	N	E. Leadership & Personal Development for Advanced Students (Leadership Duty C)	Notes:
				1. Develop a resume and complete a job application (C001)	
				2. Develop a plan for finding a job (C002)	
				3. Describe how to apply and interview for a job (C003)	
				4. Describe the characteristics needed to develop desirable personal and social skills (C004)	
				5. Describe the importance and process of developing better human relationships (C005)	
				Other:	

3	2	1	N	F. Using the Missouri Farm Business Record Book (SAE Duty D)	Notes:
				1. Describe the two types of accounting methods (D001)	
				2. Complete the forms needed to open the Missouri Farm Business Record Book (D002)	
				3. Develop a projected cash flow (D003)	
				4. Record receipts and expenditures in the Missouri Farm Business Record Book (D004)	

				5. Complete additional records in the Missouri Farm Business Record Book (D005)	
				6. Complete the forms necessary to summarize the Missouri Farm Business Record Book (D006)	
				7. Analyze the farm business using the Missouri Farm Business Record Book (D007)	
				Other:	